

WEST



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Aug 14, 1979

DERWENT-ACC-NO: 1979-69155B

DERWENT-WEEK: 197938

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TITLE: Lightweight inorganic hardened prod. prodn. - includes mixing calcium aluminate mono:sulphate hydrate(s), gypsum, water, opt. reinforcing filler, asbestos, foaming agent, curing, drying

PATENT-ASSIGNEE:

ASSIGNEE

MATSUSHITA ELECTRIC WORKS LTD

CODE

MATW

PRIORITY-DATA: 1978JP-0010052 (January 31, 1978)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

JP 54103427 A

August 14, 1979

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INT-CL (IPC): C04B 21/10

ABSTRACTED-PUB-NO: JP 54103427A

BASIC-ABSTRACT:

A light wt. foamed uniform inorg. hardened prod. exhibiting good sound absorbability and heat-insulation, suitable for use as light wt. construction material, is produced by mixing together calcium aluminate monosulphate hydrates ($3\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{CaSO}_4 \cdot 12\text{H}_2\text{O}$), gypsum and water to give a slurry mixt. and if necessary, adding an (in)organic reinforcing filler, e.g. rock wool, glass fibre, pulp, nylon, teflon and polyesters, etc. Then 1-5 wt. % of asbestos is added (w.r.t. the entire wt. of the hardened prod.) and 0.03-0.1 wt. % of a foaming agent, (w.r.t. the entire wt.) forming a large number of air bubbles inside the slurry. The slurry mixt. is then shaped to obtain a prod. cured and dried.

The hardened prod. is light in wt. and uniform due to the fact that asbestos is positively charged and the other components are negatively charged, so they coagulate together to increase the viscosity of the slurry mixt., the air bubbles being enclosed by the coagulated fine granules, and stably maintained.

TITLE-TERMS: LIGHT INORGANIC HARDEN PRODUCT PRODUCE MIX CALCIUM ALUMINATE MONO SULPHATE HYDRATE GYPSUM WATER OPTION REINFORCED FILL ASBESTOS FOAM AGENT CURE DRY

ADDL-INDEXING-TERMS:

ROCK WOOL GLASS FIBRE PULP NYLON POLYESTER TEFLON CONSTRUCTION

DERWENT-CLASS: A93 L02

CPI-CODES: A12-R01; L02-D05; L02-D07A; L02-D11;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0210 0231 0947 1283 1291 2524 2624 2646 2691 2697 2736

Multipunch Codes: 011 04- 062 064 087 141 143 144 481 551 560 562 575 581 613 617 623
626 688 699 724